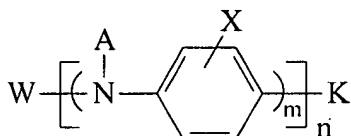


Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently Amended) A method of inhibiting the growth of tumor cells in a tumor site in a subject, comprising administering to the tumor site an effective amount of an oligoaniline having the following formula:



wherein

m is an integer of 1-6;

n is an integer of 1-10;

each A is ~~-H~~, -Z, -CH₂-CO-OH, -CH₂-CO-O-Z, -CH₂-CO-S-Z, ~~-CH₂-CO-NH₂~~, or -CH₂-CO-NH-Z; and each X is -H, -O-Z, -S-Z, -NH-Z; Z being -E-D, wherein E is -R-, -R-Ar-, -Ar-R-, or -Ar-; and D is -OH, ~~-SH~~, -NH₂, -NHOH, -SO₃H, -OSO₃H, -CO₂H, ~~-CONH₂~~, -CH(NH₂)-CO₂H, -P(OH)₃, -PO(OH)₂, -O-PO(OH)₂, -O-PO(OH)-O-PO(OH)₂, -O-PO(O⁻)-O-CH₂CH₂NH₃⁺, -glycoside, ~~-OCH₃~~, -OCH₂(CHOH)₄-CH₂OH, -OCH₂(CHOH)₂-CH₂OH, -C₆H₃(OH)₂, -NH₃⁺, -N⁺H₂R_b, -N⁺HR_bR_c, or -N⁺R_bR_cR_d, each of R, R_b, R_c, and R_d, independently, being C₁₋₃₀ alkyl; and Ar being aryl;

W is -H, -CO-B, -CH₂CH(OH)-B, -CO-NH-B, -CS-NH-B, -CO-O-B, -CO-CH₂-CH(CO₂H)-B, -CH₂-B, -SO₂-B, wherein B is -R₁-O-[Si(CH₃)₂-O-]₁₋₁₀₀, C₁₋₂₀₀₀ alkyl, C₆₋₄₀ aryl, C₇₋₆₀ alkylaryl, C₇₋₆₀ arylalkyl, (C₁₋₃₀ alkyl ether)₁₋₁₀₀, (C₆₋₄₀ aryl ether)₁₋₁₀₀, (C₇₋₆₀ alkylaryl ether)₁₋₁₀₀, (C₇₋₆₀ arylalkyl ether)₁₋₁₀₀, (C₁₋₃₀ alkyl thioether)₁₋₁₀₀, (C₆₋₄₀ aryl thioether)₁₋₁₀₀, (C₇₋₆₀ alkylaryl thioether)₁₋₁₀₀, (C₇₋₆₀ arylalkyl thioether)₁₋₁₀₀, (C₂₋₅₀ alkyl ester)₁₋₁₀₀, (C₇₋₆₀ aryl ester)₁₋₁₀₀, (C₈₋₇₀ alkylaryl ester)₁₋₁₀₀, (C₈₋₇₀ arylalkyl ester)₁₋₁₀₀, -R₁-CO-O-(C₁₋₃₀ alkyl ether)₁₋₁₀₀, -R₁-CO-O-(C₆₋₄₀ aryl ether)₁₋₁₀₀, -R₁-CO-O-(C₇₋₆₀ alkylaryl ether)₁₋₁₀₀, -R₁-CO-O-(C₇₋₆₀ arylalkyl

ether)₁₋₁₀₀, (C₄₋₅₀ alkyl urethane)₁₋₁₀₀, (C₁₄₋₆₀ aryl urethane)₁₋₁₀₀, (C₁₀₋₈₀ alkylaryl urethane)₁₋₁₀₀, (C₁₀₋₈₀ arylalkyl urethane)₁₋₁₀₀, (C₅₋₅₀ alkyl urea)₁₋₁₀₀, (C₁₄₋₆₀ aryl urea)₁₋₁₀₀, (C₁₀₋₈₀ alkylaryl urea)₁₋₁₀₀, (C₁₀₋₈₀ arylalkyl urea)₁₋₁₀₀, (C₂₋₅₀ alkyl amide)₁₋₁₀₀, (C₇₋₆₀ aryl amide)₁₋₁₀₀, (C₈₋₇₀ alkylaryl amide)₁₋₁₀₀, (C₈₋₇₀ arylalkyl amide)₁₋₁₀₀, (C₃₋₃₀ alkyl anhydride)₁₋₁₀₀, (C₈₋₅₀ aryl anhydride)₁₋₁₀₀, (C₉₋₆₀ alkylaryl anhydride)₁₋₁₀₀, (C₉₋₆₀ arylalkyl anhydride)₁₋₁₀₀, (C₂₋₃₀ alkyl carbonate)₁₋₁₀₀, (C₇₋₅₀ aryl carbonate)₁₋₁₀₀, (C₈₋₆₀ alkylaryl carbonate)₁₋₁₀₀, (C₈₋₆₀ arylalkyl carbonate)₁₋₁₀₀, -R₁-O-CO-NH-(R₂ or Ar-R₂-Ar)-NH-CO-O-(C₁₋₃₀ alkyl ether, C₆₋₄₀ aryl ether, C₇₋₆₀ alkylaryl ether, or C₇₋₆₀ arylalkyl ether)₁₋₁₀₀, -R₁-O-CO-NH-(R₂ or Ar-R₂-Ar)-NH-CO-O-(C₂₋₅₀ alkyl ester, C₇₋₆₀ aryl ester, C₈₋₇₀ alkylaryl ester, or C₈₋₇₀ arylalkyl ester)₁₋₁₀₀, -R₁-O-CO-NH-(R₂ or Ar-R₂-Ar)-NH-CO-O-(C₁₋₃₀ alkyl ether, C₆₋₄₀ aryl ether, C₇₋₆₀ alkylaryl ether, or C₇₋₆₀ arylalkyl ether)₁₋₁₀₀-CO-NH-(R₂ or Ar-R₂-Ar)-NH-CO-O-, -R₁-O-CO-NH-(R₂ or Ar-R₂-Ar)-NH-CO-O-(C₂₋₅₀ alkyl ester, C₇₋₆₀ aryl ester, C₈₋₇₀ alkylaryl ester, or C₈₋₇₀ arylalkyl ester)₁₋₁₀₀-R₃-O-CO-NH-(R₂ or Ar-R₂-Ar)-NH-CO-O-, -R₁-NH-CO-NH-(R₂ or Ar-R₂-Ar)-NH-CO-O-(C₁₋₃₀ alkyl ether, C₆₋₄₀ aryl ether, C₇₋₆₀ alkylaryl ether, or C₇₋₆₀ arylalkyl ether)₁₋₁₀₀, -R₁-NH-CO-NH-(R₂ or Ar-R₂-Ar)-NH-CO-(C₂₋₅₀ alkyl ester, C₇₋₆₀ aryl ester, C₈₋₇₀ alkylaryl ester, or C₈₋₇₀ arylalkyl ester)₁₋₁₀₀, -R₁-NH-CO-NH-(R₂ or Ar-R₂-Ar)-NH-CO-O-(C₁₋₃₀ alkyl ether, C₆₋₄₀ aryl ether, C₇₋₆₀ alkylaryl ether, or C₇₋₆₀ arylalkyl ether)₁₋₁₀₀-CO-NH-(R₂ or Ar-R₂-Ar)-NH-CO-O-, -R₁-NH-CO-NH-(R₂ or Ar-R₂-Ar)-NH-CO-O-(C₂₋₅₀ alkyl ester, C₇₋₆₀ aryl ester, C₈₋₇₀ alkylaryl ester, or C₈₋₇₀ arylalkyl ester)₁₋₁₀₀-R₃O-CO-NH-(R₂ or Ar-R₂-Ar)-NH-CO-O-, -R₁-O-CO-NH-(R₂ or Ar-R₂-Ar)-NH-CO-NH-(C₂₋₅₀ alkyl amide, C₇₋₆₀ aryl amide, C₈₋₇₀ alkylaryl amide, or C₈₋₇₀ arylalkyl amide)₁₋₁₀₀, or -R₁-NH-CO-NH-(R₂ or Ar-R₂-Ar)-NH-CO-NH-(C₂₋₅₀ alkyl amide, C₇₋₆₀ aryl amide, C₈₋₇₀ alkylaryl amide, or C₈₋₇₀ arylalkyl amide)₁₋₁₀₀; wherein each of R₁, R₂, and R₃, independently, is C₁₋₃₀ alkyl; and Ar is aryl;

K is -H, -[N(X)-C₆H₄]₁₋₃-NH₂, -[N(X)-C₆H₄]₁₋₃-NH-C(=S)-SH, -[N(X)-C₆H₄]₁₋₃-N=CH-Ar-SH, or -[N(X)-C₆H₄]₁₋₃-NH-CO-Ar-SH, wherein X is -H, -Z, -CH₂-CO-OH, -CH₂-CO-O-Z, -CH₂-CO-S-Z, -CH₂-CO-NH₂ or -CH₂-CO-NH-Z; and Ar is aryl;

and subsequently exposing the tumor site to irradiation.

2. (Original) The method of claim 1, wherein A is -Z, -CH₂-CO-O-Z, -CH₂-CO-S-Z, or -CH₂-CO-NH-Z; wherein E is -R- or -R-Ar-; and D is -OH, -SH, -NH₂, -NHOH, -SO₃H, -OSO₃H, -CO₂H, -CONH₂, -CH(NH₂)-CO₂H, -P(OH)₃, -PO(OH)₂, -O-PO(OH)₂, -O-PO(OH)-O-PO(OH)₂, or -NH₃⁺.

3. (Original) The method of claim 1, wherein m is an integer of 2-6.

4. (Original) The method of claim 1, wherein n is an integer of 1-6.

5. (Original) The method of claim 2, wherein A is -Z, Z being -E-D, wherein E is -R-, or -R-Ar-; and D is -OH, -SH, -NH₂, -NHOH, -SO₃H, -OSO₃H, -CO₂H, -CONH₂, -P(OH)₃, -PO(OH)₂, -O-PO(OH)₂, -O-PO(OH)-O-PO(OH)₂, or -NH₃⁺.

6. (Original) The method of claim 2, wherein n is an integer of 1-6.

7. (Original) The method of claim 2, wherein m is an integer of 2-6.

8. (Original) The method of claim 6, wherein m is an integer of 2-6.

9. (Original) The method of claim 5, wherein E is -R-; and D is -SO₃H, -OSO₃H, -CO₂H, -O-PO(OH)₂, or -O-PO(OH)-O-PO(OH)₂.

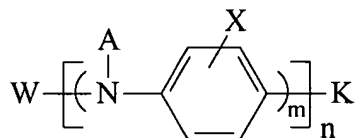
10. (Original) The method of claim 5, wherein m is an integer of 2-6.

11. (Original) The method of claim 5, wherein n is an integer of 1-6.

12. (Original) The method of claim 9, wherein E is -C₃H₆-; D is -SO₃H; n is an integer of 1-6; and m is an integer of 2-6.

13. (Original) The method of claim 12, wherein m is 4.

14. (Original) The method of claim 13, wherein each of W, X, and K is H.
15. (Original) The method of claim 3, wherein m is 4.
16. (Original) The method of claim 3, wherein n is an integer of 1-6.
17. (Original) The method of claim 15, wherein n is an integer of 1-6.
18. (Currently Amended) A pharmaceutical composition for inhibiting the growth of tumor cells, comprising a compound of the following formula:



wherein

m is an integer of ~~1-6~~ 2-6;

n is an integer of 1-10;

each A is -H, -Z, -CH₂-CO-OH, -CH₂-CO-O-Z, -CH₂-CO-S-Z, -CH₂-CO-NH₂, or -CH₂-CO-NH-Z; and each X is -H, -O-Z, -S-Z, -NH-Z; Z being -E-D, wherein E is -R-, -R-Ar-, -Ar-R-, or -Ar-; and D is -OH, -SH, -NH₂, -NHOH, -SO₃H, -OSO₃H, -CO₂H, -CONH₂, -CH(NH₂)-CO₂H, -P(OH)₃, -PO(OH)₂, -O-PO(OH)₂, -O-PO(OH)-O-PO(OH)₂, -O-PO(O⁻)-O-CH₂CH₂NH₃⁺, -glycoside, -OCH₃, -OCH₂(CHOH)₄-CH₂OH, -OCH₂(CHOH)₂-CH₂OH, -C₆H₃(OH)₂, -NH₃⁺, -N⁺H₂R_b, -N⁺HR_bR_c, or -N⁺R_bR_cR_d, each of R, R_b, R_c, and R_d, independently, being C₁₋₃₀ alkyl; and Ar being aryl;

W is -H, -CO-B, -CH₂CH(OH)-B, -CO-NH-B, -CS-NH-B, -CO-O-B, -CO-CH₂-CH(CO₂H)-B, -CH₂-B, -SO₂-B, wherein B is -R₁-O-[Si(CH₃)₂-O]₁₋₁₀₀, C₁₋₂₀₀₀ alkyl, C₆₋₄₀ aryl, C₇₋₆₀ alkylaryl, C₇₋₆₀ arylalkyl, (C₁₋₃₀ alkyl ether)₁₋₁₀₀, (C₆₋₄₀ aryl ether)₁₋₁₀₀, (C₇₋₆₀ alkylaryl ether)₁₋₁₀₀, (C₇₋₆₀ arylalkyl ether)₁₋₁₀₀, (C₁₋₃₀ alkyl thioether)₁₋₁₀₀, (C₆₋₄₀ aryl thioether)₁₋₁₀₀, (C₇₋₆₀ alkylaryl thioether)₁₋₁₀₀, (C₇₋₆₀ arylalkyl thioether)₁₋₁₀₀, (C₂₋₅₀ alkyl ester)₁₋₁₀₀, (C₇₋₆₀ aryl ester)₁₋₁₀₀, (C₈₋₇₀ alkylaryl ester)₁₋₁₀₀, (C₈₋₇₀ arylalkyl ester)₁₋₁₀₀, -R₁-CO-O-(C₁₋₃₀ alkyl ether)₁₋₁₀₀,

-R₁-CO-O-(C₆₋₄₀ aryl ether)₁₋₁₀₀, -R₁-CO-O-(C₇₋₆₀ alkylaryl ether)₁₋₁₀₀, -R₁-CO-O-(C₇₋₆₀ arylalkyl ether)₁₋₁₀₀, (C₄₋₅₀ alkyl urethane)₁₋₁₀₀, (C₁₄₋₆₀ aryl urethane)₁₋₁₀₀, (C₁₀₋₈₀ alkylaryl urethane)₁₋₁₀₀, (C₁₀₋₈₀ arylalkyl urethane)₁₋₁₀₀, (C₅₋₅₀ alkyl urea)₁₋₁₀₀, (C₁₄₋₆₀ aryl urea)₁₋₁₀₀, (C₁₀₋₈₀ alkylaryl urea)₁₋₁₀₀, (C₁₀₋₈₀ arylalkyl urea)₁₋₁₀₀, (C₂₋₅₀ alkyl amide)₁₋₁₀₀, (C₇₋₆₀ aryl amide)₁₋₁₀₀, (C₈₋₇₀ alkylaryl amide)₁₋₁₀₀, (C₈₋₇₀ arylalkyl amide)₁₋₁₀₀, (C₃₋₃₀ alkyl anhydride)₁₋₁₀₀, (C₈₋₅₀ aryl anhydride)₁₋₁₀₀, (C₉₋₆₀ alkylaryl anhydride)₁₋₁₀₀, (C₉₋₆₀ arylalkyl anhydride)₁₋₁₀₀, (C₂₋₃₀ alkyl carbonate)₁₋₁₀₀, (C₇₋₅₀ aryl carbonate)₁₋₁₀₀, (C₈₋₆₀ alkylaryl carbonate)₁₋₁₀₀, (C₈₋₆₀ arylalkyl carbonate)₁₋₁₀₀, -R₁-O-CO-NH-(R₂ or Ar-R₂-Ar)-NH-CO-O-(C₁₋₃₀ alkyl ether, C₆₋₄₀ aryl ether, C₇₋₆₀ alkylaryl ether, or C₇₋₆₀ arylalkyl ether)₁₋₁₀₀, -R₁-O-CO-NH-(R₂ or Ar-R₂-Ar)-NH-CO-O-(C₂₋₅₀ alkyl ester, C₇₋₆₀ aryl ester, C₈₋₇₀ alkylaryl ester, or C₈₋₇₀ arylalkyl ester)₁₋₁₀₀, -R₁-O-CO-NH-(R₂ or Ar-R₂-Ar)-NH-CO-O-(C₁₋₃₀ alkyl ether, C₆₋₄₀ aryl ether, C₇₋₆₀ alkylaryl ether, or C₇₋₆₀ arylalkyl ether)₁₋₁₀₀-CO-NH-(R₂ or Ar-R₂-Ar)-NH-CO-O-, -R₁-O-CO-NH-(R₂ or Ar-R₂-Ar)-NH-CO-O-(C₂₋₅₀ alkyl ester, C₇₋₆₀ aryl ester, C₈₋₇₀ alkylaryl ester, or C₈₋₇₀ arylalkyl ester)₁₋₁₀₀-R₃-O-CO-NH-(R₂ or Ar-R₂-Ar)-NH-CO-O-, -R₁-NH-CO-NH-(R₂ or Ar-R₂-Ar)-NH-CO-O-(C₁₋₃₀ alkyl ether, C₆₋₄₀ aryl ether, C₇₋₆₀ alkylaryl ether, or C₇₋₆₀ arylalkyl ether)₁₋₁₀₀, -R₁-NH-CO-NH-(R₂ or Ar-R₂-Ar)-NH-CO-(C₂₋₅₀ alkyl ester, C₇₋₆₀ aryl ester, C₈₋₇₀ alkylaryl ester, or C₈₋₇₀ arylalkyl ester)₁₋₁₀₀, -R₁-NH-CO-NH-(R₂ or Ar-R₂-Ar)-NH-CO-O-(C₁₋₃₀ alkyl ether, C₆₋₄₀ aryl ether, C₇₋₆₀ alkylaryl ether, or C₇₋₆₀ arylalkyl ether)₁₋₁₀₀-CO-NH-(R₂ or Ar-R₂-Ar)-NH-CO-O-, -R₁-NH-CO-NH-(R₂ or Ar-R₂-Ar)-NH-CO-O-(C₂₋₅₀ alkyl ester, C₇₋₆₀ aryl ester, C₈₋₇₀ alkylaryl ester, or C₈₋₇₀ arylalkyl ester)₁₋₁₀₀-R₃O-CO-NH-(R₂ or Ar-R₂-Ar)-NH-CO-O-, -R₁-O-CO-NH-(R₂ or Ar-R₂-Ar)-NH-CO-NH-(C₂₋₅₀ alkyl amide, C₇₋₆₀ aryl amide, C₈₋₇₀ alkylaryl amide, or C₈₋₇₀ arylalkyl amide)₁₋₁₀₀, or -R₁-NH-CO-NH-(R₂ or Ar-R₂-Ar)-NH-CO-NH-(C₂₋₅₀ alkyl amide, C₇₋₆₀ aryl amide, C₈₋₇₀ alkylaryl amide, or C₈₋₇₀ arylalkyl amide)₁₋₁₀₀; wherein each of R₁, R₂, and R₃, independently, is C₁₋₃₀ alkyl; and Ar is aryl;

K is -H, -[N(X)-C₆H₄]₁₋₃-NH₂, -[N(X)-C₆H₄]₁₋₃-NH-C(=S)-SH, -[N(X)-C₆H₄]₁₋₃-N=CH-Ar-SH, or -[N(X)-C₆H₄]₁₋₃-NH-CO-Ar-SH, wherein X is -H, -Z, -CH₂-CO-OH, -CH₂-CO-O-Z, -CH₂-CO-S-Z, -CH₂-CO-NH₂ or -CH₂-CO-NH-Z; and Ar is aryl; and

a pharmaceutically acceptable carrier.

19. (Original) The pharmaceutical composition of claim 18, wherein A is -Z, -CH₂-CO-O-Z, -CH₂-CO-S-Z, or -CH₂-CO-NH-Z; E is -R- or -R-Ar-; and D is -OH, -SH, -NH₂, -NHOH, -SO₃H, -OSO₃H, -CO₂H, -CONH₂, -CH(NH₂)-CO₂H, -P(OH)₃, -PO(OH)₂, -O-PO(OH)₂, -O-PO(OH)-O-PO(OH)₂, or -NH₃⁺.

20. (Original) The pharmaceutical composition of claim 19, wherein A is -Z; E is -R-; and D is -SO₃H, -OSO₃H, -CO₂H, -CH(NH₂)-CO₂H, -P(OH)₃, -PO(OH)₂, -O-PO(OH)₂, or -O-PO(OH)-O-PO(OH)₂.

21. (Original) The pharmaceutical composition of claim 20, wherein E is -C₃H₆-; D is -SO₃H; n is an integer of 1-6; m is an integer of 2-6; and each of W, X, and K is H.